

NEW COLLECTION RECORDS OF OHIO MAYFLIES (EPHEMEROPTERA)¹

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ABSTRACT: Twenty-eight new state collection records were obtained by field collection and rearing of mayflies in southeastern (unglaciated) Ohio. Previously, there were published Ohio collection records for 60 mayfly species. Discovery of four males of a primarily parthenogenetic mayfly, *Ameletus ludens* Needham, is reported. Males of this species are not known to have been collected since 1924.

There have been 60 mayfly species collected in Ohio. Most of these were found in the glaciated parts of Ohio (Allen and Edmunds, 1963, 1965; Beckett, 1977; Bednarik and McCafferty, 1979; Burks, 1953; Edmunds, 1962; Lewis, 1974; McCafferty, 1975; McDunnough, 1926; McElravy and Foote, 1975; Morihara and McCafferty, 1979; Robertson, 1984; and Traver, 1935, 1962).

Twenty-eight new state collection records were obtained by field collection and rearing of mayflies in southeastern Ohio (Hall, 1976). Especially notable in the collections were four males of *Ameletus ludens* Needham. A single male of this primarily parthenogenetic mayfly was described by Needham (1924).

Traver (1935) stated that only two males had been reported, and evidently no other males had been known since then (Burks, 1953; McCafferty and Huff, 1974; Carle, 1978).

All collections reported in this paper have been deposited in The Ohio State University Insect Collection except one *Ameletus ludens* Needham male, which has been placed in the Purdue University Insect Collection. Names following species and author are county names. New state collection records are indicated by an asterisk.

Order Ephemeroptera

Family Siphonuridae

Ameletus lineatus Traver - Belmont, Carroll, Guernsey, Hocking, Jackson, Meigs, Noble, Vinton.

**Ameletus ludens* Needham - Belmont, Carroll, Guernsey (2 adult males, 1 subimago male with nymphal exuviae), Jackson, Lawrence, Meigs, Muskingum, Vinton (1 adult male), Washington.

**Siphonurus typicus* (Eaton) - Carroll, Coshocton, Guernsey, Harrison, Holmes.

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Family Baetidae

- **Baetis frondalis* McDunnough - Guernsey, Lawrence, Noble.
- **Baetis ochris* Burks - Guernsey, Noble, Washington
- **Baetis propinquus* (Walsh) - Hocking, Scioto.
- **Callibaetis ferrugineus* (Walsh) - Guernsey.
- **Callibaetis fluctuans* (Walsh) - Guernsey, Noble, Scioto.
- Cloeon alamance* (Traver) - Guernsey, Noble.
- Cloeon rubropictum* McDunnough - Guernsey.
- **Pseudocloeon carolina* Banks - Guernsey, Washington.
- **Pseudocloeon veteris* McDunnough - Guernsey, Monroe, Washington.

Family Oligoneuriidae

- Isonychia bicolor* (Walker) - Adams.
- Isonychia rufa* McDunnough - Belmont, Columbiana, Monroe, Ross.

Family Heptageniidae

- **Epeorus namatus* (Burks) - Guernsey, Pike, Ross, Scioto, Washington.
- **Leucrocota aphrodite* (McDunnough) - Belmont, Monroe.
- Leucrocota maculipennis* (Walsh) - Gallia, Muskingum, Pike.
- Leucrocota walshi* (McDunnough) - Monroe.
- **Nixe perfida* (McDunnough) - Guernsey, Meigs, Noble.
- Stenacron candidum* (Traver) - Ross.
- Stenacron interpunctatum* (Say) - Adams, Ashland, Belmont, Gallia, Guernsey, Hocking, Jefferson, Monroe, Morgan, Muskingum, Noble, Ross, Vinton, Washington.
- Stenonema exiguum* Traver - Adams, Belmont, Columbiana, Coshocton, Guernsey, Hocking, Pike, Ross.
- Stenonema femoratum* (Say) - Adams, Guernsey, Lawrence, Meigs, Muskingum, Noble, Vinton.
- Stenonema integrum* (McDunnough) - Morgan, Muskingum.
- Stenonema mediopunctatum* (McDunnough) - Ashland, Belmont, Coshocton, Hocking, Muskingum.
- Stenonema pulchellum* (Walsh) - Belmont, Coshocton, Guernsey, Hocking, Pike.
- Stenonema terminatum* (Walsh) - Athens, Guernsey, Hocking, Morgan, Muskingum, Pike, Ross.
- Stenonema vicarium* (Walker) - Adams, Belmont, Gallia, Guernsey, Hocking, Jackson, Meigs, Monroe, Noble, Ross, Washington.

Family Leptophlebiidae

- **Habrophlebiodes americana* (Banks) - Hocking, Morgan, Ross.
- Leptophlebia cupida* (Say) - Ashland, Belmont, Coshocton, Guernsey, Harrison, Holmes, Lawrence, Meigs, Noble, Pike, Scioto, Tuscarawas.
- **Leptophlebia nebulosa* (Walker) - Ross.
- **Paraleptophlebia moerens* (McDunnough) - Guernsey, Meigs, Morgan, Noble.
- Paraleptophlebia ontario* (McDunnough) - Meigs.
- **Paraleptophlebia strigula* (McDunnough) - Guernsey, Morgan, Noble.

Family Ephemeridae

- **Ephemera varia* Eaton (*triplex* var.) - Noble (identified by W.P. McCafferty, 1976).
Hexagenia limbata (Serville) - Guernsey, Hocking, Morgan, Noble.

Family Ephemerellidae

- **Dannella lita* (Burks) - Adams, Ashland, Coshocton.
Ephemerella dorothea Needham - Carroll, Hocking, Vinton.
 **Ephemerella excrucians* Walsh - Columbiana.
 **Ephemerella needhami* McDunnough - Ashland, Columbiana, Coshocton, Knox.
 **Ephemerella rotunda* Morgan - Ashland, Columbiana, Knox.
 **Eurylophella bicolor* (Clemens) - Guernsey, Meigs.
Eurylophella funeralis (McDunnough) - Guernsey, Pike, Ross, Scioto.
 **Eurylophella temporalis* (McDunnough) - Jackson, Knox, Muskingum.
 **Eurylophella verisimilis* (McDunnough) - Adams, Carroll, Columbiana, Guernsey, Jefferson, Noble, Washington.
 **Serratella deficiens* (Morgan) - Ashland.
 **Serratella frisoni* (McDunnough) - Belmont.

Family Tricorythidae

- **Tricorythodes atratus* (McDunnough) - Muskingum, Ross.

Family Caenidae

- **Caenis gigas* Burks - Guernsey.
Caenis jocosa McDunnough - Carroll, Guernsey.
Caenis simulans McDunnough - Hocking.

Family Baetiscidae

- Baetisca lacustris* McDunnough - Guernsey, Knox, Meigs, Morgan, Ross, Tuscarawas.

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ERRATUM

In the title of the article on parasitism of European corn borer by Romig, Mason, and Burbutis (May & June, 1985, Vol. 96, No. 3, page 123, and in listing on table of contents on cover), an error was made in identifying the family for *Macrocentrus grandii*. The family should have been Braconidae. The entire correct title of the article should read:

PARASITISM OF EUROPEAN CORN BORER BY
LYDELLA THOMPSONI (DIPTERA: TACHINIDAE)
 AND **MACROCENTRUS GRANDII** (HYMENOPTERA:
 BRACONIDAE) IN SOUTHEAST PENNSYLVANIA
 AND DELAWARE¹